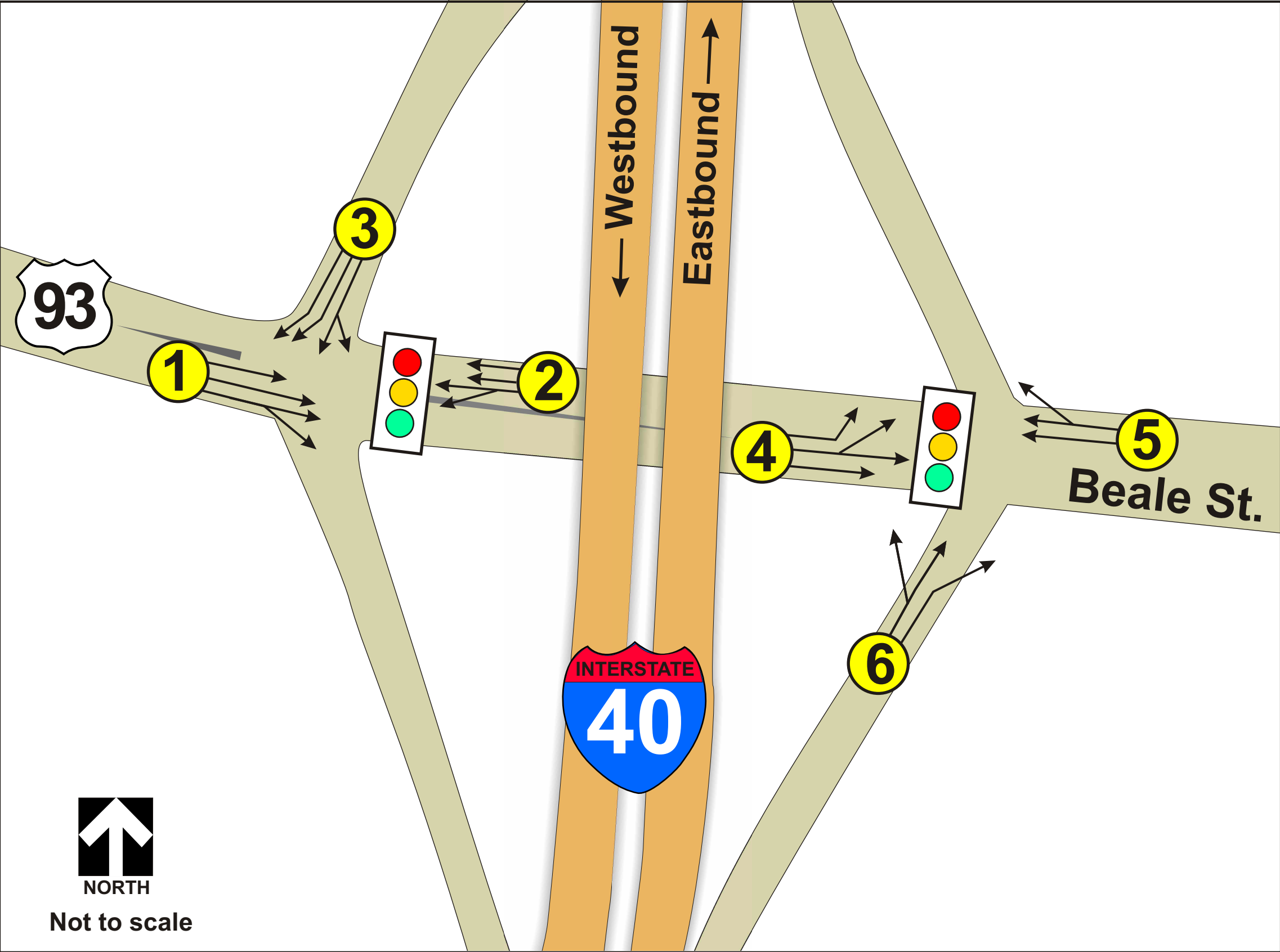
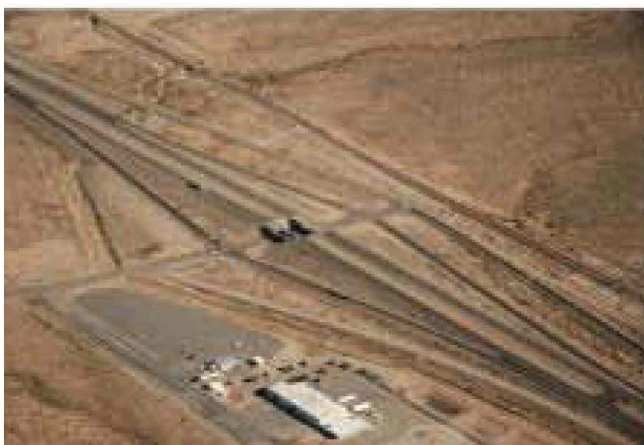




# I-40/US 93 WEST KINGMAN TI



Feasibility Report and Environmental Studies



## Traffic Study Results

To analyze efficiency levels for the I-40/US 93 Interchange, the *I-40/US 93 West Kingman TI Study* utilized traffic interchange delay data and Level of Service (LOS) information to determine driving conditions. The information below reflects traffic conditions experienced for 2006, future conditions should no action be taken, and conditions anticipated with the proposed direct connection and improvements to the Beale Street Interchange.

### Traffic Interchange Delay

Traffic Interchange Delay is described as delays experienced by motorists while queuing up at intersections - both entering and exiting the I-40/Beale Street Traffic Interchange. Analysis was conducted for eastbound (EB), westbound (WB), northbound (NB), and southbound (SB) travel conditions.



### Level of Service (LOS)

Level of Service (LOS) is a qualitative measurement that describes traffic conditions in terms of speed, travel time, freedom to maneuver, comfort, convenience, traffic interruptions, and safety.

Six classifications are used to define LOS, designated by the letters A through F. LOS A represents the best conditions, while LOS F represents heavily congested flow with traffic demand exceeding highway capacity.

The existing I-40/US 93 Traffic Interchange does not have adequate capacity to meet the needs of the community and regional traffic, and it is anticipated that the current arrangement will exceed its capacity before the projected design year.

## Beale Street Traffic Interchange Delay and Level of Service

Route	2006 Conditions		2040 With No Action		2040 With Direct Connection and Improvements to Beale Street Interchange	
	Delay (seconds/vehicle)	Level of Service	Delay - in seconds (minutes/seconds)	Level of Service	Delay - in seconds (minutes/seconds)	Level of Service
US 93/WB I-40 On-and Off-Ramp Terminal Intersections						
① SB US 93 (west approach)	18 sec	B	286 sec (4 min 46 sec)	F	20 sec	C
② NB US 93 (east approach)	6 sec	A	96 sec (1 min 36 sec)	F	14 sec	B
③ WB I-40 Off-Ramp (north approach)	31 sec	C	256 sec (4 min 16 sec)	F	28 sec	C
Intersection Overall	19 sec	B	221 sec (3 min 41 sec)	F	18 sec	B
US 93/Beale St./EB I-40 On- and Off-Ramp Terminal Intersections						
④ SB US 93 (west approach)	20 sec	C	455 sec (7 min 35 sec)	F	13 sec	B
⑤ NB US 93 (east approach)	60 sec	E	522 sec (8 min 42 sec)	F	29 sec	C
⑥ EB I-40 Off-Ramp (south approach)	38 sec	D	214 sec (3 min 34 sec)	F	29 sec	C
Intersection Overall	39 sec	D	454 sec (7 min 34 sec)	F	24 sec	C